

Solar metal abundance inferred from helioseismology

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In the previous work, we constructed a solar model called the seismic solar model, which has the consistent profiles of the sound speed and the density as well as the consistent depth of the convection zone with helioseismology. The profile of the heavy element abundance, however, had to be parametrized for feasibility. Here we try to constrain the profile of the heavy element abundance as well by adopting the basic equations governing the solar structure.